

(12) INTERNATIONAL APPLICATION PUBLISHED UNDER THE PATENT COOPERATION TREATY (PCT)

(19) World Intellectual Property Organization  
International Bureau



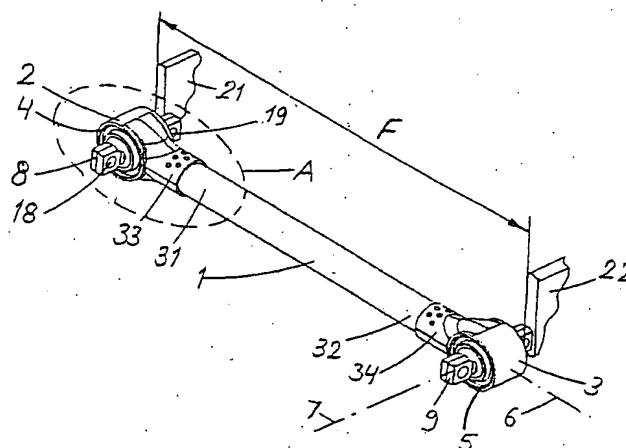
(43) International Publication Date  
18 December 2003 (18.12.2003)

PCT

(10) International Publication Number  
WO 03/103997 A1

- (51) International Patent Classification<sup>7</sup>: B60G 7/00, (74) Agents: ONSAGERS AS et al.; P.O. Box 6963 St. Olavs plass, N-0130 Oslo (NO).
- (21) International Application Number: PCT/NO03/00184 (81) Designated States (*national*): AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BY, BZ, CA, CH, CN, CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NI, NO, NZ, OM, PH, PL, PT, RO, RU, SC, SD, SE, SG, SK, SL, TJ, TM, TN, TR, TT, TZ, UA, UG, US, UZ, VC, VN, YU, ZA, ZM, ZW.
- (22) International Filing Date: 5 June 2003 (05.06.2003)
- (25) Filing Language: Norwegian
- (26) Publication Language: English
- (30) Priority Data: 20022664 5 June 2002 (05.06.2002) NO (84) Designated States (*regional*): ARIPO patent (GH, GM, KE, LS, MW, MZ, SD, SL, SZ, TZ, UG, ZM, ZW), Eurasian patent (AM, AZ, BY, KG, KZ, MD, RU, TJ, TM), European patent (AT, BE, BG, CH, CY, CZ, DE, DK, EE, ES, FI, FR, GB, GR, HU, IE, IT, LU, MC, NL, PT, RO, SE, SI, SK, TR), OAPI patent (BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE, SN, TD, TG).
- (71) Applicant (*for all designated States except US*): KONGSBERG AUTOMOTIVE ASA [NO/NO]; P.O. Box 62, N-3602 Kongsberg (NO).
- (72) Inventors; and
- (75) Inventors/Applicants (*for US only*): BJØRKGÅRD, Sven [NO/NO]; Rådmann Friis vei 41, N-3610 Kongsberg (NO). KRISTOFFERSEN, Aleksander [NO/NO]; Åssideveien, N-3322 Darbu (NO).
- Published:  
— with international search report
- For two-letter codes and other abbreviations, refer to the "Guidance Notes on Codes and Abbreviations" appearing at the beginning of each regular issue of the PCT Gazette.*

(54) Title: METHOD FOR PRODUCTION OF A REACTION ROD FOR VEHICLES AND SAID REACTION ROD



(57) **Abstract:** A method of manufacturing a reaction rod for use in connecting a chassis (21) of a vehicle with a wheel axle housing (22) of the vehicle. The reaction rod comprises a rod (1) with two end portions, two housings (2,3), each of which can be securely connected with its rod end portion, and two attachment pieces (8,9), each of which extends through its passage (4,5) of the housings (2,3). The attachment pieces (8,9) are arranged to be attached to the chassis (21) and the wheel axle housing (22) respectively. The distance between reference points (16,17) of the respective attachment pieces (8,9) establishes a functional length (F) of the reaction rod. The method comprises the steps of manufacturing the housings by stamping and bending of a plate, manufacturing the attachment pieces (8,9) with a clearance relative to the passages (4,5) inserting the attachment pieces (8,9) in the respective passages (4,5), mounting the attachment pieces (8,9) in a jig, the distance between the reference points (16,19) corresponding to the functional length (F), and attaching the housings (2,3) to the rod (1). A reaction rod with housing manufactured from a plate. Fig. 1

WO 03/103997 A1